4164-01-P

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2018-D-4368]

Assessing the Effects of Food on Drugs in Investigational New Drugs and New Drug Applications--Clinical Pharmacology Considerations; Guidance for Industry; Availability

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice of availability.

SUMMARY: The Food and Drug Administration (FDA or Agency) is announcing the availability of a final guidance for industry entitled "Assessing the Effects of Food on Drugs in INDs and NDAs--Clinical Pharmacology Considerations." This guidance provides recommendations to sponsors planning to conduct food-effect (FE) studies for orally administered drug products as part of investigational new drug applications (INDs), new drug applications (NDAs), and supplements to these applications. This guidance finalizes the draft guidance of the same title issued on February 26, 2019.

DATES: The announcement of the guidance is published in the *Federal Register* on [INSERT DATE OF PUBLICATION IN THE *FEDERAL REGISTER*].

ADDRESSES: You may submit either electronic or written comments on Agency guidances at any time as follows:

Electronic Submissions

Submit electronic comments in the following way:

• Federal eRulemaking Portal: https://www.regulations.gov. Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to https://www.regulations.gov will be posted to the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be

posted, such as medical information, your or anyone else's Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on https://www.regulations.gov.

• If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see "Written/Paper Submissions" and "Instructions").

Written/Paper Submissions

Submit written/paper submissions as follows:

- Mail/Hand delivery/Courier (for written/paper submissions): Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852.
- For written/paper comments submitted to the Dockets Management Staff, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in "Instructions."

Instructions: All submissions received must include the Docket No. FDA-2018-D-4368 for "Assessing the Effects of Food on Drugs in INDs and NDAs--Clinical Pharmacology Considerations." Received comments will be placed in the docket and, except for those submitted as "Confidential Submissions," publicly viewable at https://www.regulations.gov or at the Dockets Management Staff between 9 a.m. and 4 p.m., Monday through Friday, 240-402-7500.

Confidential Submissions--To submit a comment with confidential information that you
do not wish to be made publicly available, submit your comments only as a written/paper
submission. You should submit two copies total. One copy will include the information
you claim to be confidential with a heading or cover note that states "THIS DOCUMENT

CONTAINS CONFIDENTIAL INFORMATION." The Agency will review this copy, including the claimed confidential information, in its consideration of comments. The second copy, which will have the claimed confidential information redacted/blacked out, will be available for public viewing and posted on https://www.regulations.gov. Submit both copies to the Dockets Management Staff. If you do not wish your name and contact information to be made publicly available, you can provide this information on the cover sheet and not in the body of your comments and you must identify this information as "confidential." Any information marked as "confidential" will not be disclosed except in accordance with 21 CFR 10.20 and other applicable disclosure law. For more information about FDA's posting of comments to public dockets, see 80 FR 56469, September 18, 2015, or access the information at:

https://www.govinfo.gov/content/pkg/FR-2015-09-18/pdf/2015-23389.pdf.

*Docket*: For access to the docket to read background documents or the electronic and written/paper comments received, go to https://www.regulations.gov and insert the docket number, found in brackets in the heading of this document, into the "Search" box and follow the prompts and/or go to the Dockets Management Staff, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852, 240-402-7500.

You may submit comments on any guidance at any time (see 21 CFR 10.115(g)(5)).

Submit written requests for single copies of this guidance to the Division of Drug Information, Center for Drug Evaluation and Research, Food and Drug Administration, 10001 New Hampshire Ave., Hillandale Building, 4th Floor, Silver Spring, MD 20993-0002. Send one self-addressed adhesive label to assist that office in processing your requests. See the SUPPLEMENTARY INFORMATION section for electronic access to the guidance document. FOR FURTHER INFORMATION CONTACT: Vikram Arya or Brian Booth, Center for Drug Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Silver Spring, MD 20993-0002, 301-796-1499 or 301-796-1508.

#### SUPPLEMENTARY INFORMATION:

# I. Background

FDA is announcing the availability of a guidance for industry entitled "Assessing the Effects of Food on Drugs in INDs and NDAs--Clinical Pharmacology Considerations." Food-drug interactions can have a significant impact on the safety and efficacy of the drug and can be manifested in different ways. In some cases, co-administration of a drug with food can increase the systemic exposure of the drug, leading to improved efficacy or higher rates of adverse reactions. In other cases, administration of a drug with food can lower the systemic absorption of a drug, thereby reducing the efficacy. Hence, assessing the effect of food on the absorption of a drug is critical to optimize the safety and efficacy of the product and to determine optimum instructions for drug administration in relation to food.

During new drug development, pharmacokinetic studies to assess the effect of food on the systemic exposure of the drug are conducted to determine: (1) if, and to what extent, food impacts the systemic exposure of the drug; (2) whether food increases or decreases the variability of the systemic exposure of the drug; and (3) if the effect of food is different across meals with different fat or caloric contents. It is important to have as detailed an understanding of the exposure-response relationships of the drug as possible to interpret the results of FE studies. Additionally, an understanding of the various clinical dosing scenarios will be important to characterize the effect of food and to provide adequate instructions for use of the drug.

This guidance finalizes the draft guidance entitled "Assessing the Effects of Food on Drugs in INDs and NDAs--Clinical Pharmacology Considerations" issued on February 26, 2019 (84 FR 6151). FDA considered comments received on the draft guidance as the guidance was finalized. Changes from the draft to the final guidance include adding a discussion of model-informed drug development approaches to assessing the effects of food on drug exposures and the removal of specific language regarding the timing of food effect studies and food effect studies by population pharmacokinetic analysis.

This guidance is being issued consistent with FDA's good guidance practices regulation (21 CFR 10.115). The guidance represents the current thinking of FDA on "Assessing the Effects of Food on Drugs in INDs and NDAs--Clinical Pharmacology Considerations." It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations.

## II. Paperwork Reduction Act of 1995

While this guidance contains no collection of information, it does refer to previously approved FDA collections of information. Therefore, clearance by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3501-3521) is not required for this guidance. The previously approved collections of information are subject to review by OMB under the PRA. The collections of information in 21 CFR part 314 have been approved under OMB control number 0910-0001. The collections of information in 21 CFR part 312 have been approved under OMB control number 0910-0014. The collection of information in 21 CFR parts 50 and 56 have been approved under OMB control number 0910-0130. The collections of information in 21 CFR 201.56 and 201.57 have been approved under OMB control numbers 0910-0733 and 0910-0572, and the collections of information related to pharmacogenomic data have been approved under OMB control number 0910-0557.

## III. Electronic Access

Persons with access to the internet may obtain the guidance at https://www.fda.gov/drugs/guidance-compliance-regulatory-information/guidances-drugs, https://www.fda.gov/regulatory-information/search-fda-guidance-documents, or https://www.regulations.gov.

Dated: June 17, 2022.

Lauren K. Roth,

Associate Commissioner for Policy.

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